

Chem-Impex International, Inc.

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	00931
Lot Number	002197-201026
Product	3'-Azido-3'-deoxythymidine AZT
CAS Number	30516-87-1
Molecular Formula	C ₁₀ H ₁₃ N ₅ O ₄
Molecular Weight	267.25

Appearance	White to yellowish powder
Solubility	Sparingly soluble in water, soluble in alcohol
Melting Point	123 - 124 °C
Water Content (Karl Fisher)	0.2%
Optical Rotation	[α] _D ²⁰ = 61.9 °
Infrared Spectrum	Conforms to structure
Residual Solvents	Methanol : < 2000 ppm Ethyl acetate : < 2000 ppm Dioxane : < 200 ppm Toluene : < 300 ppm Triethylamine : < 200 ppm DMSO : < 5000 ppm
Related Substances	Test A : Method 1 : Max unspecified impurity : 0.1%, Total impurity : 0.1% Method 2 : Max. unspecified impurity : 0.1% Triphenylmethanol : Not detected Total impurities : 0.3%
Residue On Ignition	0.04%
Assay	99.1%
Grade	USP
Storage	Store at 0 - 8 °C
Additional Information	Related substances Test B : Impurity B : < 0.05% Impurity C : < 0.05% Total for test A and B : 0.2%

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager